

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P518534

Luminaire Tested: **SQ4-BB-075U-075D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P518534
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-BB-075U-075D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

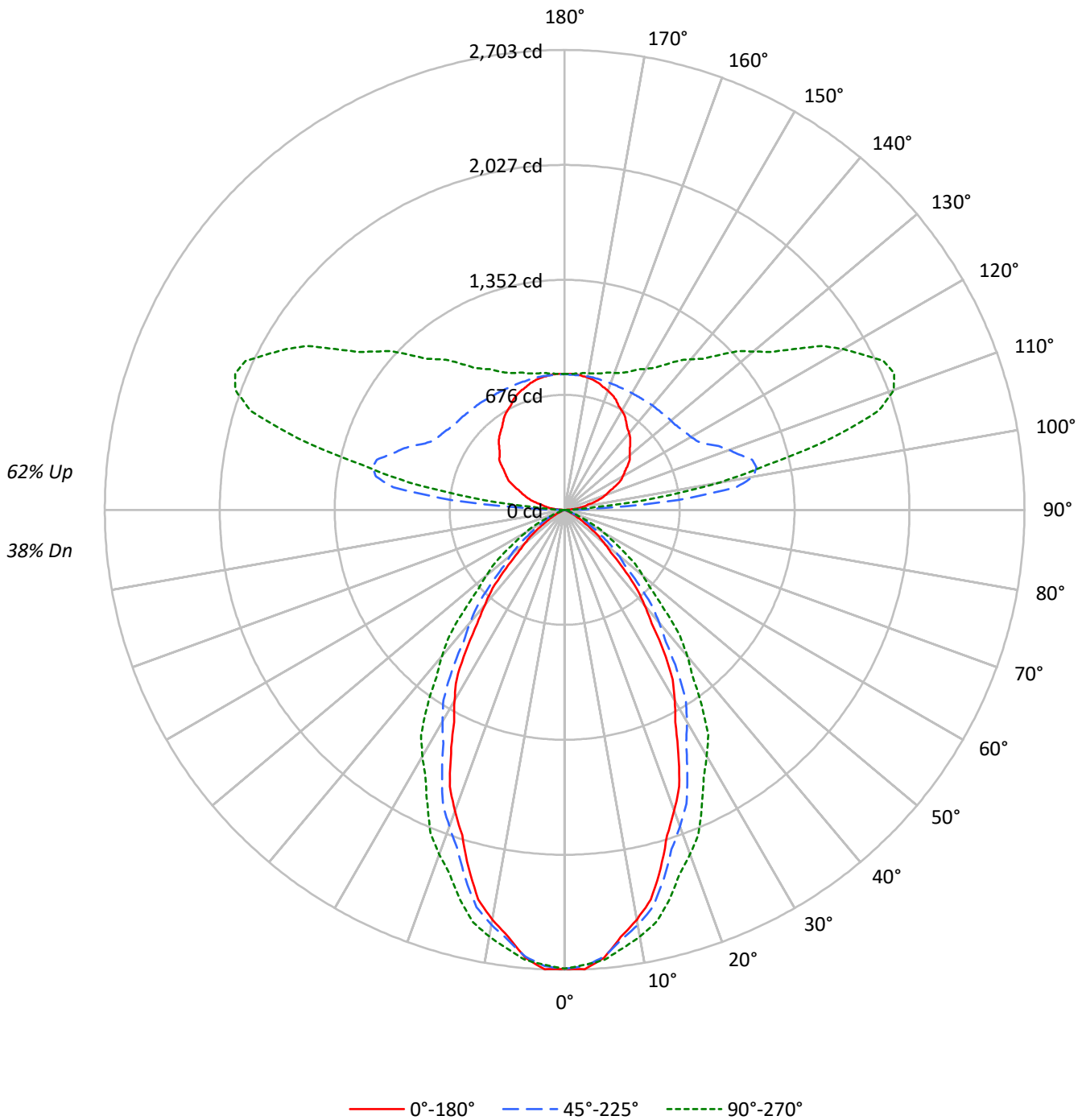
Lumens per Lamp: N/A
Luminaire Lumens: 8421.5 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 91
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				
1	96	93	89	86	88	85	82	79	69	67	66	55	54	53	42	41	41	35				
2	89	83	77	73	81	76	71	67	62	59	57	50	48	46	39	38	37	32				
3	82	74	68	62	75	68	62	58	56	52	49	46	43	41	36	34	33	28				
4	76	66	59	54	69	61	55	50	51	47	43	42	39	36	33	31	30	26				
5	70	60	53	47	64	55	49	44	46	42	38	38	35	32	30	28	27	23				
6	65	54	47	42	59	50	44	39	42	38	34	35	32	29	28	26	24	21				
7	60	49	42	37	55	46	39	35	39	34	31	32	29	26	26	24	22	20				
8	56	45	38	33	52	42	36	31	36	31	28	30	26	24	24	22	20	18				
9	53	42	35	30	48	39	33	28	33	28	25	28	24	22	23	20	19	17				
10	49	38	32	27	45	36	30	26	31	26	23	26	23	20	21	19	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12440	12440	12440
5°	12240	12210	12301
10°	11453	11605	11929
15°	10412	10742	11340
20°	9242	9723	10574
25°	8048	8686	9715
30°	6894	7651	8903
35°	5716	6495	7920
40°	4392	5193	6749
45°	3175	3932	5431
50°	2163	2931	4307
55°	1406	2119	3347
60°	806	1493	2419
65°	214	911	1225
70°	105	282	352
75°	46	23	0
80°	35	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	2.9
10°-20°	629.4	7.5
20°-30°	787.9	9.4
30°-40°	727.8	8.6
40°-50°	489.0	5.8
50°-60°	252.6	3.0
60°-70°	79.1	0.9
70°-80°	5.0	0.1
80°-90°	2.1	0.0
90°-100°	376.7	4.5
100°-110°	1036.3	12.3
110°-120°	1069.6	12.7
120°-130°	857.0	10.2
130°-140°	673.1	8.0
140°-150°	515.8	6.1
150°-160°	370.9	4.4
160°-170°	226.8	2.7
170°-180°	76.4	0.9
0°-30°	1663.4	19.8
0°-40°	2391.1	28.4
0°-60°	3132.7	37.2
0°-90°	3219.0	38.2
90°-120°	2482.6	29.5
90°-150°	4528.5	53.8
90°-180°	5203.0	61.8
0°-180°	8421.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2697	2697	2697	2697	2697	
5°	2643	2616	2637	2646	2656	245
15°	2180	2172	2249	2325	2374	607
25°	1581	1594	1706	1823	1909	725
35°	1015	1040	1153	1289	1406	629
45°	487	516	603	720	832	382
55°	175	204	264	338	416	163
65°	20	37	84	101	112	33
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	2	7	12	15	15	4
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2696.7	2696.7	2696.7	2696.7	2696.7
2.5°	2703.0	2677.5	2684.2	2684.0	2676.9
5°	2643.2	2616.4	2636.7	2646.1	2656.3
7.5°	2531.5	2510.6	2549.5	2578.7	2599.9
10°	2444.9	2427.0	2477.5	2517.3	2546.7
12.5°	2344.7	2330.9	2391.9	2446.5	2484.0
15°	2180.1	2172.4	2249.2	2324.7	2374.5
17.5°	2003.7	2003.4	2091.1	2184.8	2244.8
20°	1882.6	1886.4	1980.5	2083.8	2154.0
22.5°	1761.5	1770.5	1870.9	1978.6	2059.0
25°	1581.2	1594.0	1706.5	1823.2	1908.7
27.5°	1408.0	1426.6	1545.0	1666.3	1770.4
30°	1294.2	1315.9	1436.4	1564.1	1671.3
32.5°	1182.5	1208.3	1325.8	1460.8	1570.0
35°	1015.0	1040.5	1153.3	1289.0	1406.4
37.5°	842.0	867.0	977.2	1110.8	1237.6
40°	729.3	757.4	862.4	991.8	1120.7
42.5°	627.0	655.1	753.8	881.1	1002.8
45°	486.6	516.0	602.7	720.1	832.4
47.5°	370.3	402.1	478.3	584.5	686.8
50°	301.4	333.3	408.4	501.9	600.1
52.5°	246.1	276.9	344.7	432.8	522.9
55°	174.8	204.2	263.5	338.4	416.2
57.5°	120.8	146.1	199.3	261.8	322.8
60°	87.4	111.6	161.8	212.5	262.2
62.5°	58.2	80.4	129.4	168.3	201.7
65°	19.6	37.4	83.5	100.7	112.2
67.5°	9.9	12.0	43.8	46.3	50.1
70°	7.8	7.8	20.9	22.3	26.1
72.5°	5.7	5.7	8.3	10.7	11.5
75°	2.6	2.6	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.3	1.3	2.4	3.1	3.1
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)